Attorney Docket No. 004085.P030X

Patent

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of:)
Christopher Bajorek, et al.) Examiner: M. Daniels)
Application No.: 10/659,006) Art Group: 1732
Filed: September 9, 2003)
For: Isothermal Imprinting)
Commissioner for Patents PO Box 1450 Alexandria, Virginia 22313-1450)

DECLARATION OF DAVID TREVES UNDER 37 C.F.R. § 1.132

I, David Treves, hereby declare and say as follows:

I earned my B.Sc. degree in electrical engineering, Summa cum Laude, at the Technion, Israel Institute of Technology, in 1953. I earned an Ingenieur degree in electrical engineering at the Technion in 1954. I earned an M.Sc. degree in electrical engineering in 1956 at the Technion and a D.Sc. degree in electrical engineering in 1958 at the Technion.

For roughly the last fifty years I have worked in a number of research departments in the fields of electrical engineering and physics. Attached as Exhibit A is my curriculum vitae, listing my publications and previous positions. Although listed in Exhibit A, I mention here that I have served on the technical staff at Bell Telephone Laboratories, I was a fellow at IBM, I was a professor of Electronics at the Weizmann Institute of Science, and I worked as a scientist at

the Xerox Palo Alto Research Center. I am currently a Komag Fellow at Komag, Inc., the assignee of the present application.

I have published 125 technical papers and sixteen U.S. patents have been issued to me.

I have extensive experience in the field of magnetic recording disks and, also, in the manufacture of magnetic recording disks using embossing techniques. As such, I believe I am familiar with the prior art relating to the present invention and am familiar with the knowledge of one of ordinary skill in the art relating to the invention. I also understand the present invention.

The Examiner rejected claims 1, 2, 8, 10-12, 17, 20 and 22 under 35 U.S.C. §102(b) as being anticipated by U.S. Patent Publication No. 20020025408 of Davis ("Davis"). I understand that the Davis discloses:

Once the substrate has attained the desired temperature, it is placed in the mold and pressure is applied. After placing the substrate in the mold the temperature thereof can be **maintained**, increased or decreased as necessary in order to optimize replication and enable substrate release from the mold **while maintaining the integrity of the surface features**. Typically in order to maintain the integrity of the surface features, the molded substrate is cooled to below the glass transition temperature prior to removal from the mold. (Davis, paragraph 0075)(second sentence emphasis added).

I understand that it is the Examiner's position that the second sentence of paragraph [0075] of Davis pertains to the temperature at removal. More specifically, it is the Examiner's position that maintaining the integrity of the surface features in an embossing operation occurs during the removal of the mold from the substrate and, thus, the second sentence of paragraph [0075] of Davis pertains also to the removal step, and in at least one embodiment, the

temperature is maintained while removing the substrate from the mold. (Office Action, 1/24/07, page 12).

I believe the Examiner's reading of Davis to be incorrect. I am convinced that one of ordinary skill in the art would <u>not</u> find the second sentence of paragraph [0075] of Davis to pertain to the temperature at removal. Rather, one of ordinary skill in the art would understand the second sentence of paragraph [0075] of Davis to pertain to what may be done with the temperature immediately after the mold is brought into contact with the substrate.

In addition, I also believe that the third sentence of paragraph [0075] of Davis does not refer to an "alternative" embodiment as purported by the Examiner but, rather, is the next step in the same embodiment described by paragraph [0075]. One of ordinary skill in the art, when reading the entire paragraph [0075], would understand the third sentence of paragraph [0075] of Davis to explicitly teach that the molded substrate is cooled to below the glass transition temperature prior to removal from mold in order to maintain the integrity of the surface features. Furthermore, one of ordinary skill in the art, when reading the entire paragraph 0075, would understand the integrity of the surface features of the molded substrate can be affected by different steps in the molding operation and that maintenance of surface feature integrity is not affected only by removal operations but also by parameters at other operations such, for example, temperature before embossing, temperature and pressure at initial contact and applied pressure during compressing. Therefore, teachings that an operation maintains, or does not have an affect on, the integrity of the surface features does not, ipso facto, mean that such operation is a removal operation.

For at least the foregoing reasons, it is submitted that the Davis reference does not provide an anticipatory disclosure to one of ordinary skill in the art to which the invention pertains for claim 1 of the present application.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with knowledge that willful and false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Dated: 104 4 2007 2007

David Treves Komag Fellow Komag, Inc. 1.7



June 27, 1985

. CURRICULUM VITAE

Name

..: David Treves.

Address

.: : Wcizmann Institute of Science, Rehovot, Israel.

Date and Place

of Birth

: June 28, 1930, Italy.

Citizenship

: Israeli.

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Marital Status : Married, three children.

Education:

1950 - 1953

: Technion, Israeli Institute of Technology, Haifa, B.Sc.,

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Summa cum Laude, 1953.

1954

: Ingenieur, Electrical Engineering, The Technion.

1956 1958

: M.Sc. Electrical Engineering, The Tachnion. : D.Sc. Electrical Engineering, The Technion.

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. . Work Experience:

: Teacher of Physics and Mathematics, Agricultural High School, Caduri

Jan Barrier

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1953 - 1957 - Grantee, Weizmann Institute of Science, Rehovot, Israel. Designed Electronic instruments. Developed and studied experimentally and theoreticallly the magnet amplifier of the second harmonic type working with crossed magnetic field, and the use of ferrites for such amplifiers. Developed a clip-on milliameter for do currents, using a ferrite transducer and a static reading head for tape recorders. Studied theoretically and experimentally the instability regions of the second harmonic magnetic amplifiers and the possible use of such a device as a semi-active memory element.

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: Research Assistant, Weizmann Institute of Science, Rehovot, Israel (Thesis). Worked on problems related to magnetization processes of ferromagnetic materials, such as the new field of micromagnetics and special domain configurations. 可能 数数 driver for the term.

1959 - 1960

: Research Associate, Pomona College, Department of Physics. Worked on the theory of the coercive force in ferromagnetic materials.

Theoretical studies of the fine structures of Bloch walls. Developed a high resolution instrument for the micro-observation of magnetic domains using the magneto-optic Kerr effect. Studied the theoretical limitation of the Kerr method. Experimental study of the magnetization processes in iron . . Whiskers under high fields. a lifeta mari i da dell'odi. I di tra una città di della della di discone di discone di discone di discone di di

EXHIBIT A

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1962-1963	Dagaera	sh Associate Design	The transition of the same of
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	TUSTITUE	of Science, Rehovot, Israel.	Measurement of
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	r optical	properties of magnetic materi	als, and prediction of new
	optical	effects. Research on magneti	c properties of orthoferrites
	includin	g magnetic rare earth ions.	
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1963-1965	Senior S	Scientist, Department of Elect	ronics, The Weizmann
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1965-1966	On sahh	atical leave as Member of Re	search Staff Amney Com
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1966-1967		e Professor, Department of E	lectronics. The Weissen
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		Rehovot, Israel.	
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1973-1977	Deefease	Carrie Carrier	<u></u>
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	Science,	Rehovot, Israel.	·
1977-1981	100	预算部件的通用。 最后的数据。	200
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5	Science,	Rehovot, Israel.	And the second
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1981-1982	On leave	of absence at Optical Science	Lab., Xerox Palo Alto
	Research	Center, Palo Alto, California	
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Head, Department of Electronics, the Weizmann Institute of

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Science, Rehovot, Israel.

1987 - 1995:

Komag Inc. Senior scientist.

1995 – present:

Komag Fellow. Led several projects from inception to completion.

Examples are:

Substrate manufacturing, coating, testing, packaging, 1. 1. 5 marketing and customer support of rewritable optical disks. -3:.597852**-**

Laser Texture equipment and process of disks, including

serialization.

Optical Inspection equipment and processes of substrates

and media.

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